## AMENDMENTS TO THE CLAIMS

Upon entry of this amendment, the following listing of claims will replace all prior versions and listings of claims in the pending application.

Please amend claims 1-10, 16-20 and 22-26 as follows:

- 1. (Currently Amended) A method for virtualizing access to named system objects, the method comprising instructing a suitably programmed computer to perform the steps of:
- (a) receiving a request to access a system object stored in a memory element provided by a computer, the request received from a process executing in the <u>a</u> context of an isolation environment, the isolation environment comprising an application isolation layer and a user isolation layer, the request including a virtual name for the system object;
- (b) selecting, from a memory element provided by the computer, a rule associated with the request, the selection responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes;
- (c) forming a literal name for the system object in response to the determined selected rule; and
- (d) issuing, to the <u>an</u> operating system <u>executing on the computer</u>, a request to access the system object, the request including the literal name for the system object.
- 2. (Currently Amended) The method of claim 1 wherein step (a) comprises: receiving a request to access a system object stored in the memory element provided by the computer, the request received from a process executing in the context of an isolation environment, the isolation environment comprising an application isolation layer and a user isolation layer, the system object is selected from the group consisting of a semaphore, a mutex, a mutant, a timer, an event, a job object, a file-mapping object, a section, a named pipe, and a mailslot, the request including a virtual name for the system object.
- 3. (Currently Amended) The method of claim 1 wherein step (a) <u>further comprises</u> intercepting [[a]] the request to access [[a]] the system object from a process executing in the context of an

isolation environment, the isolation environment comprising an application isolation layer and a user isolation layer, the request including a virtual name for the system object.

- 4. (Currently Amended) The method of claim 1 wherein step (a) comprises receiving a request from a process executing in the context of an isolation environment, the isolation environment comprising an application isolation layer and a user isolation layer, the request to access the system object comprises a request to open [[a]] the system object, the request including a virtual name for the system object.
- 5. (Currently Amended) The method of claim 1 wherein step (a) comprises receiving a request from a process executing in the context of an isolation environment, the isolation environment comprising an application isolation layer and a user isolation layer, the request to access the system object comprises a request to create [[a]] the system object, the request including a virtual name for the system object.
- 6. (Currently Amended) The method of claim 1 wherein step (b) <u>further</u> comprises determining, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, that a rule action selected from the group consisting of ignore, redirect and isolate, is associated with the request.
- 7. (Currently Amended) The method of claim 1 wherein step (b) <u>further comprises</u> accessing a rules engine to determine, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, a rule action associated with the virtual name included in the received request.
- 8. (Currently Amended) The method of claim 1 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, a literal name for the system object stored in the memory element provided by the computer using the virtual name provided in the request and a scope-specific identifier.

- 9. (Currently Amended) The method of claim 1 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, a literal name for the system object stored in the memory element provided by the computer using the virtual name provided in the request and a scope-specific identifier, the scope-specific identifier associated with an application isolation scope with which the process making the request is associated.
- 10. (Currently Amended) The method of claim 1 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, a literal name for the system object stored in the memory element provided by the computer using the virtual name provided in the request and a scope-specific identifier, the scope-specific identifier associated with the user isolation scope in which the process making the request executes.
- 11. (Previously Presented) The method of claim 1 wherein step (c) further comprises the step of forming a literal name for the system object stored in the memory element provided by the computer identifying the system object as having global visibility.
- 12. (Previously Presented) The method of claim 1 wherein step (c) further comprises the step of forming a literal name for the system object stored in the memory element provided by the computer identifying the system object as having session visibility.
- 13. (Previously Presented) The method of claim 1 wherein step (c) comprises forming a literal name for the system object stored in the memory element provided by the computer that is identical to the virtual name provided in the request.
- 14. (Original) The method of claim 1 further comprising the step of receiving a handle from the operating system identifying the accessed object.
- 15. (Original) The method of claim 14 further comprising the step of transmitting the handle to the process.

- 16. (Currently Amended) The method of claim 1 further comprising the step of receiving a second request to access the system object from a second process executing in the context of a second isolation environment comprising an second application isolation layer and a second user isolation scope layer, the second request including the virtual name for the object.
- 17. (Currently Amended) The method of claim 16 wherein step (c) <u>further</u> comprises forming, responsive to the <u>second</u> application isolation layer and the second user isolation layer forming [[an]] <u>the second</u> isolation environment in which the second process executes, a literal name for the system object using the virtual name provided in the <u>second</u> request and a scope-specific identifier.
- 18. (Currently Amended) The method of claim 17 wherein step (c) <u>further</u> comprises forming, responsive to the <u>second</u> application isolation layer and the <u>second</u> user isolation layer forming the <u>second</u> isolation environment in which the <u>second</u> process executes, a literal name for the system object stored in the memory element provided by the computer using the virtual name provided in the request and a scope-specific identifier, the scope-specific identifier associated with an application isolation scope with which the <u>second</u> process making the request is associated.
- 19. (Currently Amended) The method of claim 17 wherein step (c) <u>further</u> comprises forming, responsive to the <u>second</u> application isolation layer and the <u>second</u> user isolation layer forming the <u>second</u> isolation environment in which the <u>second</u> process executes, a literal name for the system object stored in the memory element provided by the computer using the virtual name provided in the request and a scope-specific identifier, the scope-specific identifier associated with the second user isolation scope in which the second process making the request executes.
- 20. (Currently Amended) The method of claim 16 wherein step (c) <u>further</u> comprises forming, responsive to the <u>second</u> application isolation layer and the <u>second</u> user isolation layer forming the <u>second</u> isolation environment in which the <u>second</u> process executes, a literal name for the

system object stored in the memory element provided by the computer that is identical to the virtual name provided in the request.

- 21. (Previously Presented) The method of claim 1 further comprising the step of receiving a request to access the system object from a second process executing in the context of the user isolation layer, the request including the virtual name for the object.
- 22. (Currently Amended) The method of claim 21 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the second process executes, a literal name for the system object using the virtual name provided in the request and a scope-specific identifier.
- 23. (Currently Amended) The method of claim 22 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the second process executes, a literal name for the system object using the virtual name provided in the request and a scope-specific identifier, the scope-specific identifier associated with an application isolation scope with which the second process making the request is associated.
- 24. (Currently Amended) The method of claim 22 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the second process executes, a literal name for the system object using the virtual name provided in the request and a scope-specific identifier, the scope-specific identifier associated with the user isolation scope in which the second process making the request executes.
- 25. (Currently Amended) The method of claim 21 wherein step (c) <u>further</u> comprises forming, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the second process executes, a literal name for the system object that is identical to the virtual name provided in the request.

- 26. (Currently Amended) An apparatus for virtualizing access to named system objects comprising:
- computer-readable program means for receiving a request to access a system object from a process executing in the a context of an isolation environment, the isolation environment comprising an application isolation layer and a user isolation layer, the request including a virtual name for the system object;
- computer-readable program means for forming a literal name for the system object responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes; and
- computer-readable program means for requesting access to the system object using the literal name.
- 27. (Previously Presented) The apparatus of claim 26 wherein the computer-readable program means for receiving a request intercepts a request to open a system object.
- 28. (Previously Presented) The apparatus of claim 26 wherein the computer-readable program means for receiving a request intercepts a request to create a system object
- 29. (Previously Presented) The apparatus of claim 26 further comprising computer-readable program means for storing a rule associated with the request.
- 30. (Previously Presented) The apparatus of claim 29 wherein the computer-readable program means for storing a rule comprises a database.
- 31. (Previously Presented) The apparatus of claim 26 wherein the computer-readable program means for forming a literal name for the system object forms, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, a literal name for the system object that is identical to the virtual name.

- 32. (Previously Presented) The apparatus of claim 26 wherein the computer-readable program means for forming a literal name for the system object forms, responsive to the application isolation layer and the user isolation layer forming the isolation environment in which the process executes, a literal name for the system object using the virtual name and a scope-specific identifier.
- 33. (Original) The apparatus of claim 32 wherein the scope-specific identifier is associated with an application isolation scope with which the process making the request is associated.
- 34. (Original) The method of claim 32 wherein the scope-specific identifier is associated with the user isolation scope in which the process making the request executes.